



IRW

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Karl A. Hanold, et al.

Application No.: 10/672,958

Filed: September 24, 2003

For: MULTIPLE ION SOURCES INVOLVING  
ATMOSPHERIC PRESSURE PHOTOIONIZATION

Examiner: Unknown

Art Group: 2881

**INFORMATION DISCLOSURE STATEMENT**

Commissioner For Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

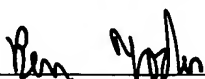
In accordance with Applicant's duty of disclosure under 37 CFR §1.56, and in accordance with 37 CFR §§1.97-1.98, Applicant submits the enclosed modified Form PTO/SB/08A. The above-referenced patent application was filed after June 30, 2003, therefore Applicant does not submit each cited U.S. patent and U.S. patent application publication, as allowed by the U.S.P.T.O. waiver of 37 CFR 1.98 (a)(2)(i).

It is hereby stated that this Information Disclosure Statement is being filed prior to the issuance of the initial Office Action, and therefore, no petition or fee is required. However, in the event a petition is needed for consideration of this Information Disclosure Statement, Applicant hereby so petitions. Please charge any fee due to Deposit Account No. 09-0946.

Respectfully submitted,

IRELL & MANELLA LLP

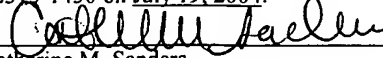
Dated: July 19, 2004

  
Ben Yorks, Reg. No. 33,609

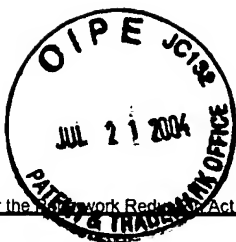
840 Newport Center Drive  
Suite 400  
Newport Beach, CA 92660  
Telephone: (949) 760-0991

**Certificate of Mailing**

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail with sufficient postage in an envelope addressed to: Commissioner For Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on July 19, 2004.

  
Catherine M. Sanders

7-19-2004  
Date



PTO/SB/21 (08-03)  
Approved for use through 08/30/2003. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

## TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

|                        |                      |
|------------------------|----------------------|
| Application Number     | 10/672,958           |
| Filing Date            | September 24, 2003   |
| First Named Inventor   | Karl A. Hanold       |
| Art Unit               | 2881                 |
| Examiner Name          | Unknown              |
| Attorney Docket Number | 155692-0034 (P002X2) |

Total Number of Pages in This Submission

### ENCLOSURES (Check all that apply)

|  |   |   |
|--|---|---|
| <input checked="" type="checkbox"/> Fee Transmittal Form                     | <input type="checkbox"/> Drawing(s)                                       | <input type="checkbox"/> After Allowance communication to Technology Center (TC)        |
| <input type="checkbox"/> Fee Attached  | <input type="checkbox"/> Licensing-related Papers                         | <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences     |
| <input type="checkbox"/> Amendment/Reply                                     | <input type="checkbox"/> Petition   | <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) |
| <input type="checkbox"/> After Final   | <input type="checkbox"/> Petition to Convert to a Provisional Application | <input type="checkbox"/> Proprietary Information  |
| <input type="checkbox"/> Affidavits/declaration(s)                           | <input type="checkbox"/> Power of Attorney, Revocation                    | <input type="checkbox"/> Status Letter  |
| <input type="checkbox"/> Extension of Time Request                           | <input type="checkbox"/> Change of Correspondence Address                 | <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):         |
| <input type="checkbox"/> Express Abandonment Request                         | <input type="checkbox"/> Terminal Disclaimer                              | - Form SB/PTO/08 (3 pg)   |
| <input checked="" type="checkbox"/> Information Disclosure Statement         | <input type="checkbox"/> Request for Refund                               | - 16 references   |
| <input type="checkbox"/> Certified Copy of Priority Document(s)              | <input type="checkbox"/> CD, Number of CD(s) _____                        | - Return postcard   |
| <input type="checkbox"/> Response to Missing Parts/Incomplete Application    | Remarks   |   |
| <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53 |   |   |

### SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

|                         |               |
|-------------------------|---------------|
| Firm or Individual name | Ben J. Yorks  |
| Signature               |               |
| Date                    | July 19, 2004 |

### CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

|                       |                      |      |               |
|-----------------------|----------------------|------|---------------|
| Typed or printed name | Catherine M. Sanders |      |               |
| Signature             |                      | Date | July 19, 2004 |

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PTO/SB/17 (08-03)

Approved for use through 07/31/2006. OMB 0651-0032  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

# FEE TRANSMITTAL for FY 2003

Effective 01/01/2003. Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ ) 0.00

## Complete if Known

|                      |                      |
|----------------------|----------------------|
| Application Number   | 10/672,958           |
| Filing Date          | September 24, 2003   |
| First Named Inventor | Karl A. Hanold       |
| Examiner Name        | Unknown              |
| Art Unit             | 2881                 |
| Attorney Docket No.  | 155692-0034 (P002X2) |

## METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit card ☐ Money Order ☐ Other ☒ None

☐ Deposit Account:

Deposit  
Account  
Number  
Deposit  
Account  
Name

09-0946

Irell & Manella LLP

The Director is authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☒ Credit any overpayments

☒ Charge any additional fee(s) during the pendency of this application

☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

## FEE CALCULATION

### 1. BASIC FILING FEE

| Large Entity |          | Small Entity |          | Fee Description        | Fee Paid   |
|--------------|----------|--------------|----------|------------------------|------------|
| Fee Code     | Fee (\$) | Fee Code     | Fee (\$) |                        |            |
| 1001         | 750      | 2001         | 375      | Utility filing fee     |            |
| 1002         | 330      | 2002         | 165      | Design filing fee      |            |
| 1003         | 520      | 2003         | 260      | Plant filing fee       |            |
| 1004         | 750      | 2004         | 375      | Reissue filing fee     |            |
| 1005         | 160      | 2005         | 80       | Provisional filing fee |            |
| SUBTOTAL (1) |          |              |          |                        | (\$ ) 0.00 |

### 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

|                    | Extra Claims | Fee from below | Fee Paid |
|--------------------|--------------|----------------|----------|
| Total Claims       | -20** =      | X              |          |
| Independent Claims | -3** =       | X              |          |
| Multiple Dependent |              |                |          |

| Large Entity |          | Small Entity |          | Fee Description  |
|--------------|----------|--------------|----------|--|
| Fee Code     | Fee (\$) | Fee Code     | Fee (\$) |  |
| 1202         | 18       | 2202         | 9        | Claims in excess of 20                                     |
| 1201         | 84       | 2201         | 42       | Independent claims in excess of 3                          |
| 1203         | 280      | 2203         | 140      | Multiple dependent claim, if not paid                      |
| 1204         | 84       | 2204         | 42       | ** Reissue independent claims over original patent         |
| 1205         | 18       | 2205         | 9        | ** Reissue claims in excess of 20 and over original patent |

SUBTOTAL (2) (\$ ) 0.00

\*\*or number previously paid, if greater; For Reissues, see above

## FEE CALCULATION (continued)

### 3. ADDITIONAL FEES

Large Entity Small Entity

| Fee Code | Fee (\$) | Fee Code | Fee (\$) | Fee Description  | Fee Paid |
|----------|----------|----------|----------|--|----------|
| 1051     | 130      | 2051     | 65       | Surcharge - late filing fee or oath  |          |
| 1052     | 50       | 2052     | 25       | Surcharge - late provisional filing fee or cover sheet                     |          |
| 1053     | 130      | 1053     | 130      | Non-English specification  |          |
| 1812     | 2,520    | 1812     | 2,520    | For filing a request for ex parte reexamination                            |          |
| 1804     | 920*     | 1804     | 920*     | Requesting publication of SIR prior to Examiner action                     |          |
| 1805     | 1,840*   | 1805     | 1,840*   | Requesting publication of SIR after Examiner action                        |          |
| 1251     | 110      | 2251     | 55       | Extension for reply within first month                                     |          |
| 1252     | 410      | 2252     | 205      | Extension for reply within second month                                    |          |
| 1253     | 930      | 2253     | 465      | Extension for reply within third month                                     |          |
| 1254     | 1,450    | 2254     | 725      | Extension for reply within fourth month                                    |          |
| 1255     | 1,970    | 2255     | 985      | Extension for reply within fifth month                                     |          |
| 1401     | 320      | 2401     | 160      | Notice of Appeal   |          |
| 1402     | 320      | 2402     | 160      | Filing a brief in support of an appeal                                     |          |
| 1403     | 280      | 2403     | 140      | Request for oral hearing   |          |
| 1451     | 1,510    | 1451     | 1,510    | Petition to institute a public use proceeding                              |          |
| 1452     | 110      | 2452     | 55       | Petition to revive - unavoidable   |          |
| 1453     | 1,300    | 2453     | 650      | Petition to revive - unintentional   |          |
| 1501     | 1,300    | 2501     | 650      | Utility issue fee (or reissue)   |          |
| 1502     | 470      | 2502     | 235      | Design issue fee   |          |
| 1503     | 630      | 2503     | 315      | Plant issue fee  |          |
| 1460     | 130      | 1460     | 130      | Petitions to the Commissioner  |          |
| 1807     | 50       | 1807     | 50       | Processing fee under 37 CFR 1.17(q)  |          |
| 1806     | 180      | 1806     | 180      | Submission of Information Disclosure Stmt                                  |          |
| 8021     | 40       | 8021     | 40       | Recording each patent assignment per property (times number of properties) |          |
| 1809     | 750      | 2809     | 375      | Filing a submission after final rejection (37 CFR 1.129(a))                |          |
| 1810     | 750      | 2810     | 375      | For each additional invention to be examined (37 CFR 1.129(b))             |          |
| 1801     | 750      | 2801     | 375      | Request for Continued Examination (RCE)                                    |          |
| 1802     | 900      | 1802     | 900      | Request for expedited examination of a design application                  |          |

.Other fee (specify)

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ ) 0.00

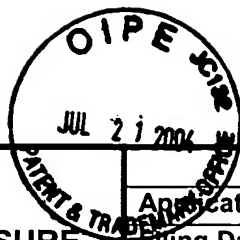
## SUBMITTED BY

|                   |                     |                                   |               |           |              |
|-------------------|---------------------|-----------------------------------|---------------|-----------|--------------|
| Name (Print/Type) | Ben J. Yorks        | Registration No. (Attorney/Agent) | 33,609        | Telephone | 949-760-0991 |
| Signature         | <i>Ben J. Yorks</i> | Date                              | July 19, 2004 |           |              |

**WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.**

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



|   |   |    |   |                          |  |                      |
|---|---|----|---|--------------------------|--|----------------------|
| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br>(use as many sheets as necessary) |   |    |   | <b>Complete if known</b> |  |                      |
|   |   |    |   | Application Number       |  | 10/672,958           |
|   |   |    |   | Filing Date              |  | September 24, 2003   |
|   |   |    |   | First Named Inventor     |  | Karl A. Hanold       |
|   |   |    |   | Group Art Unit           |  | 2881                 |
|   |   |    |   | Examiner Name            |  | Unknown              |
| Sheet   | 1 | of | 3 | Attorney Docket Number   |  | 155692-0034 (P002X2) |

| U.S. PATENT DOCUMENTS |          |                      |           |   |  |   |
|-----------------------|----------|----------------------|-----------|---|--|---|
| Examiner Initials     | Cite No. | U.S. Patent Document |           | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|                       |          | Number               | Kind Code |   |  |   |
|                       | 1.       | 5,854,431            |           | Linker et al.                                   | 12-29-1998                                       |   |
|                       | 2.       | 5,826,214            |           | Lieb et al.                                     | 10-20-1998                                       |   |
|                       | 3.       | 5,808,299            |           | Syage   | 09-15-1998                                       |   |
|                       | 4.       | 5,554,846            |           | Regiec et al.                                   | 09-10-1996                                       |   |
|                       | 5.       | 5,569,917            |           | Buttrill, Jr. et al.                            | 10-29-1996                                       |   |
|                       | 6.       | 5,631,462            |           | Reents, Jr.                                     | 05-20-1997                                       |   |
|                       | 7.       | 5,504,328            |           | Bonser  | 04-02-1996                                       |   |
|                       | 8.       | 5,568,144            |           | Chiao et al.                                    | 10-22-1996                                       |   |
|                       | 9.       | 5,527,731            |           | Yamamoto et al.                                 | 06-18-1996                                       |   |
|                       | 10.      | 5,412,207            |           | Micco et al.                                    | 05-02-1995                                       |   |
|                       | 11.      | 5,393,979            |           | Hsi   | 02-28-1995                                       |   |
|                       | 12.      | 5,422,643            |           | Chu et al.                                      | 06-06-1995                                       |   |
|                       | 13.      | 5,343,488            |           | Guyot et .                                      | 08-30-1994                                       |   |
|                       | 14.      | 5,397,895            |           | Leone et al.                                    | 03-14-1995                                       |   |
|                       | 15.      | 5,311,016            |           | Villa-Aleman                                    | 05-10-1994                                       |   |
|                       | 16.      | 5,422,575            |           | Ferrer et al.                                   | 06-06-1995                                       |   |
|                       | 17.      | 5,381,006            |           | Wells et al.                                    | 01-10-1995                                       |   |
|                       | 18.      | 5,338,931            |           | Spangler et al.                                 | 08-16-1994                                       |   |
|                       | 19.      | 5,294,797            |           | Frey et al.                                     | 03-15-1994                                       |   |
|                       | 20.      | 5,469,323            |           | Kanayama  | 11-21-1995                                       |   |
|                       | 21.      | 5,630,221            |           | Birleson  | 05-13-1997                                       |   |
|                       | 22.      | 5,248,973            |           | Babu et al.                                     | 09-28-1993                                       |   |
|                       | 23.      | 5,198,816            |           | Kalinowski et al.                               | 03-30-1993                                       |   |
|                       | 24.      | 5,068,658            |           | Ohlsson et al.                                  | 11-26-1991                                       |   |
|                       | 25.      | 5,289,529            |           | Karnowski                                       | 02-22-1994                                       |   |
|                       | 26.      | 5,070,240            |           | Lee et al.                                      | 12-03-1991                                       |   |
|                       | 27.      | 5,032,721            |           | Bacon et al.                                    | 07-16-1991                                       |   |
|                       | 28.      | 5,234,838            |           | Bacon, Jr.                                      | 08-10-1993                                       |   |
|                       | 29.      | 5,206,594            |           | Zipf  | 04-27-1993                                       |   |
|                       | 30.      | 5,283,436            |           | Wang  | 02-01-1994                                       |   |
|                       | 31.      | 4,931,640            |           | Marshall et al.                                 | 06-05-1990                                       |   |
|                       | 32.      | 5,153,672            |           | Globig et al.                                   | 10-06-1992                                       |   |
|                       | 33.      | 5,138,552            |           | Weedon et al.                                   | 08-11-1992                                       |   |
|                       | 34.      | 4,876,502            |           | Verbanets et al.                                | 10-24-1989                                       |   |
|                       | 35.      | 4,855,594            |           | Kimock et al.                                   | 08-08-1989                                       |   |

Examiner: \_\_\_\_\_ Date Considered: \_\_\_\_\_

**Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 2 of 3

**Complete if known**

|                        |                      |
|------------------------|----------------------|
| Application Number     | 10/672,958           |
| Filing Date            | September 24, 2003   |
| First Named Inventor   | Karl A. Hanold       |
| Group Art Unit         | 2881                 |
| Examiner Name          | Unknown              |
| Attorney Docket Number | 155692-0034 (P002X2) |

**U.S. PATENT DOCUMENTS**

|     |           |                 |            |
|-----|-----------|-----------------|------------|
| 36. | 4,780,608 | Cross et al.    | 10-25-1988 |
| 37. | 4,804,846 | Hall            | 02-14-1989 |
| 38. | 4,861,988 | Henion et al.   | 08-29-1989 |
| 39. | 4,849,628 | McLuckey et al. | 07-18-1989 |
| 40. | 4,733,073 | Becker et al.   | 03-22-1988 |
| 41. | 4,540,884 | Stafford et al. | 09-10-1985 |
| 42. | 4,365,157 | Unsold et al.   | 12-21-1982 |
| 43. | 3,555,272 | Munson et al.   | 01-12-1971 |
| 44. | 4,014,793 | Tesarik et al.  | 03-29-1977 |
| 45. | 4,517,850 | Wiseman et al.  | 05-21-1985 |
| 46. | 4,855,594 | Kimock et al.   | 08-08-1989 |

**FOREIGN PATENT DOCUMENTS**

| Examiner<br>Initials | Cite<br>No. | Foreign Patent Document |        |              | Name of Patentee or<br>Applicant of Cited<br>Document | Date of Publication<br>of Cited Document<br>MM-DD-YYYY | Pages, Columns,<br>Lines, Where<br>Relevant<br>Passages or<br>Relevant Figures<br>Appear |
|----------------------|-------------|-------------------------|--------|--------------|---|--|--|
|                      |             | Office                  | Number | Kind<br>Code |   |  |  |
|                      |             |                         |        |              |   |  |  |

**OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS**

| Examiner<br>Initials | Cite<br>No. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. |
|----------------------|-------------|---|
|                      | 47.         | Mahon, et al, "Third-Harmonic Generation in Argon, Krypton, and Xenon: Bandwidth Limitations in the Vicinity of Lyman-a", IEEE Journal of Quantum Electronics, VOL. QE-15, No. 6, June 1979, pp 444-451.  |
|                      | 48.         | Rettnner, et al, "Pulsed Free Jets: Novel Nonlinear Media for Generation of Vacuum Ultraviolet and Extreme Ultraviolet Radiation", The Journal of Physical Chemistry, Vol 88, No. 20, 1984, pp 4459-4465.   |
|                      | 49.         | Tonkyn, et al, "Compact Vacuum Ultraviolet Source for Photoelectron Spectroscopy", Rev. Sci. Instrum. Volume 60, No. 7, July 1989, pp 1245-1251.  |
|                      | 50.         | R. Wallenstein, "Generation of Narrowband Tunable VUV Radiation at the Lyman-a Wavelength", Optics Communications, Volume 33, No. 1, April 1980, pp 119-122.  |

Examiner: \_\_\_\_\_ Date Considered: \_\_\_\_\_

**Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

|   |   |    |   |                          |                      |
|---|---|----|---|--------------------------|----------------------|
| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br>(use as many sheets as necessary) |   |    |   | <b>Complete if known</b> |                      |
|   |   |    |   | Application Number       | 10/672,958           |
|   |   |    |   | Filing Date              | September 24, 2003   |
|   |   |    |   | First Named Inventor     | Karl A. Hanold       |
|   |   |    |   | Group Art Unit           | 2881                 |
|   |   |    |   | Examiner Name            | Unknown              |
| Sheet   | 3 | of | 3 | Attorney Docket Number   | 155692-0034 (P002X2) |

| OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS |  |  |
|---|--|--|
| 51.   | R. Hilbig, et al, "Tunable VUV Radiation Generated by Two-Photon Resonant Frequency Mixing in Xenon", IEEE Journal of Quantum Electronics, Volume QE-19, No. 2, February 1983, pp 194-201.                             |  |
| 52.   | Jack A. Syage, "Real-Time Detection of Chemical Agents Using Molecular Beam Laser Mass Spectrometry", American Chemical Society, 1990.   |  |
| 53.   | David M. Lubman, "Lasers and Mass Spectrometry", Oxford University Press, 1990, pp 469-489.  |  |
| 54.   | Nesselrodt, et al., "Cyclic Ketone Mixture Analysis Using 2 + 1 Resonance-Enhanced Multiphoton Ionization Mass Spectrometry", Analytical Chemistry, Vol. 66, pp. 2497-2504, 1994.                                      |  |
| 55.   | R. Frey, et al. "Real-Time Vehicle Exhaust Analysis Using a Laser TOF Mass Spectrometer" Proc. 40 <sup>th</sup> Anal. Conf. Mass Spectrom & Allied Topics, 1992, pp 678-679.   |  |
| 56.   | R. Tembreull, et al. "Pulsed Laser Desorption of Biological Molecules in Supersonic Beam Mass Spectrometry with Resonant Two-Photon Ionization Detection",   |  |
| 57.   | Steven M. Michael, "An Ion Trap Storage/Time-of-Flight Mass Spectrometer", Rev. Sci. Instrum., Vol. 63, No. 10, pages 4277-4284, October 1992.   |  |
| 58.   | Mark G. Qian et al, "A Hybrid Instrument That Combines TOF With The Ion Trap Yields Excellent Sensitivity For Small Samples", Analytical Chemistry, Vol. 67, No. 7, pp. 234-242, April 1, 1995.                        |  |
| 59.   | E.R. Rohwer, R.C. Beavis, C. Koster, J. Lindner, J. Grotemeyer and E.W. Schlag, "Fast Pulsed Laser Induced Electron Generation for Electron Impact Mass Spectrometry", November 23, 1988, pgs. 1151-1153.              |  |
| 60.   | J.G. Boyle, L.D. Pfefferle, E.E. Gulcicek, S.D. Colson, "Laser-driven Electron Ionization for a VUV Photoionization Time-Of-Flight Mass Spectrometer", Rev. Sci. Instrum., Vol. 62, No. 2, pp. 323-333, February 1991. |  |
| 61.   | P.Y. Cheng and H.L. Dai, "A Photoemitted Electron-Impact Ionization Method For Time-Of-Flight Mass Spectrometers", Rev. Sci. Instrum. Vol. 64, No. 8, pages 2211-2214, August 1993.                                    |  |
| 62.   | U. Boesl et al. "Laser Ion Sources For Time-Of-Flight Mass Spectrometry", Int. J. Mass Spectrom. Ion Processes 131 (1994) 87-124.  |  |

Examiner: \_\_\_\_\_ Date Considered: \_\_\_\_\_

**Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.